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(54) METHOD FOR PURIFYING CARBON-NANOTUBE

(57)Abstract:

PURPOSE: To obtain a carbon.nanotube having a uniform molecular weight and size by dispersing a crude product containing the carbon.nanotube in a liquid with ultrasonic waves, passing the resultant dispersion through a chromatographic column and separating the carbon.nanotube.

CONSTITUTION: A crude product containing a carbon.nanotube is dispersed in a liquid with ultrasonic waves. When a surfactant is added, the dispersion state is improved and preferred for preventing the condensation. The dispersion is further passed through a chromatographic column to separate carbonaceous substances other than the nanotube and nanoparticles. Thereby, the carbon.nanotube is separated by a difference in developing speed in the column. The nanotube uniform in regard to electric conductivity can be obtained by electrostatic separation.

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